

Also two instances are abstracted to show the advantages of iliac puncture technique enabling serial studies. In one case clumps of melanine-laden cells were found in the iliac crest aspiration while the sternal marrow was negative for these cells. Following thiouracil administration the melanuria stopped and studies of iliac bone marrow at six hours interval showed gradual disappearance of melanine in the cells. In another case of pernicious anemia in relapse and

treated with folic acid, the successive stages of maturation of megaloblasts were studied in serial iliac aspirations performed at four hours intervals.

SUMMARY

Bone marrow can be obtained safely, easily and repeatedly from the iliac crest, and may provide information at times not obtainable from the sternal aspiration.

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The Diagnosis of Thyroid Disease by Means of Radioactive Iodine

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The administration of radioactive iodine is followed by concentration of the substance in the thyroid gland. The ordinary Geiger-Müller tube has a large angle of acceptance. By means of a lead enclosure a collimating device has been made with which the radioactivity in adjacent areas may be measured separately. These measurements

plotted against distance across the neck from the midline or against distance from the vertex produce curves designated as profiles which permit increased accuracy in the diagnosis of thyroid disease when considered with the physical findings. Sixty patients have been so studied and the results in a variety of affections are demonstrated.